CLAIMS

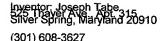
- An audio safety apparatus for a vehicle or transportation equipment having a transmission, braking and backing means for transmitting communication signals, comprising:
 - a switch terminal responsive to enabling audio signal communication for a predetermined mechanical condition of a vehicle, said conditions having a potential to cause injury.
 - a logic switch, for transmitting coded data in communication with a data defined means, said means responsive for enabling voice auditory and signal communication with a processing unit,
 - a central processing unit for relaying and retrieving signals in communication with plurality switches responsive for voice auditory communication,
 - means for transforming said signal communication into selective human voice auditory signal,
 - a system of hardware with an internal logical interface means in communication with said central processing unit,
 - a voltage suppressor in communication with said internal logical interface means responsive for filtering unwanted voltage,



- a braking chip in communication with said central processing unit,
- an automatic controller in communication with said switch, enabling a controlled energy source for comparing coded signals with requisite target for enabling voice auditory and signal responses,
- a database system responsive for a data dictionary in communication with said system of hardware for broadcasting selective defined voice auditory and signals,
- a sound chip in communication with said database system, responsive for said output, for emitting voice auditory sound and signal responses in warning of a potentially predetermined mechanical operation associated with the operation of a vehicle,
- a processor in communication with said database system; and
- an amplifier in communication with said sound chip, for generating an amplified voice auditory and signal communication.
- 2. An audio safety apparatus as claimed in claim 1, wherein said activation switch being in communication with a vehicle's transmission, outputting a prescribed selective human voice auditory response and signal when said transmission is motioned in a reverse mode, for communication with passer-by thereof.



- 3. An audio safety apparatus as claimed in claim 1, wherein said braking chip is responsive to activating voice and signal communication when a vehicle's brake is applied.
- 4. An audio safety apparatus as claimed in claim1, wherein said voice and signals are emitted to a delay, for delaying signals in repeating times.
- A safety apparatus as claimed in claim1, wherein said predetermined mechanical operation is a prescribed mechanical or electro-mechanical operation of a vehicle's components.
- 6. A safety apparatus as claimed in claim1, wherein said hardware component includes communication devices for transmitting and receiving signals or electrical pulses responsive for enabling defined selective voice auditory sound through a waterproof speaker.
- 7. A safety apparatus as claimed in claim 1, wherein said predetermined mechanical condition is an extended motion of a school vehicle stop sign arm attached to the side of a vehicle, responsive for allowing current pulses to flow to at least an input terminal, enabling selected voice auditory signal communication for broadcasting thereof.



- 8. A safety device, as claimed in claim 1, wherein said predetermined mechanical condition is the motion of a tailgate of a dumping vehicle or a raised bed of a front-end loader vehicle, responsive for allowing current pulses to enable selected voice auditory communication for broadcasting thereof.
- 9. A safety device, as claimed in claim 1, wherein said amplifier is responsive for empowering a broadcasting auditory sound through a waterproof speaker, said speaker located near a noise producing portion of the said vehicle, or built inside a mirror housing, or built inside a housing of a tail light or mounted at a mirror brackets.
- 10. A safety warning process for communicating with pedestrians, vehicle drivers, and vehicle passengers thereof, said process comprising steps:
 - to activate a switch terminal, said switch terminal responsive for signal communication in response to predetermined mechanical conditions of a vehicle, said condition having a potential to cause injury to at least a passer-by;
 - to provide current pulses from said switch terminal means to at least a device, responsive for outputting voice auditory signal communication;
 - to transform said current pulses into control voltage responsive to enabling signal communication, for emitting voice auditory messages when a switch circuitry is completed;

- to divide said voltage into a predetermined controlled voltage and comparing said voltage with pre-selected data, generating an output signal thereof;
- to emitting an educational safety steps for safeguarding accidents, enabling a voice auditory response comprehensively communicating to a driver and a passer-by within the vicinity or surrounding of the vehicle;
- to amplifying said voice auditory and signals response to an external and internal speaker capable of transmitting said sound signal response within a localized covering area, to individuals both inside and outside of a vehicle.
- 11. The safety warning process for alerting pedestrians, vehicle driver, vehicle passengers, according to claim 10, wherein said predetermined mechanical condition of a vehicle occurs when a transmission is shifted to a reverse mode, enabling electrical pulses responsive for a prescribed voice auditory signal communication.
- 12. The safety warning process for alerting pedestrians, vehicle drivers, and vehicle passengers, according to claim 10, wherein said predetermined mechanical condition of a vehicle occurs when a school bus stop sign arm is extended, enabling electrical pulses responsive for a prescribed voice auditory signal communication from a defined data source.



- 13. The safety warning process for alerting pedestrians, vehicle drivers, and vehicle passengers, according to claim 10, wherein said predetermined mechanical condition of a vehicle occurs when a driver attempts to release a vehicle's parking brake, enabling electrical pulses responsive for a prescribed voice auditory signal communication.
- 14. The safety warning process for alerting pedestrians, vehicle drivers, and vehicle passengers, according to claim 10, wherein said predetermined mechanical condition of a vehicle occurs when any of a vehicle's tailgate is open, or a vehicle's bed is raised, or a cement mixer vehicle is performing a funneling operation.
- 15. The safety warning process for alerting pedestrians, vehicle drivers, and vehicle passengers, according to claim 10, wherein said voice auditory response and signal communication are enabled by a processor and produced by a sound chip.
- 16. The safety warning process for alerting pedestrians, vehicle drivers, and vehicle passengers, according to claim 10, wherein said voice auditory response may be selected from a predefined set of sound chip, responsive for voice auditory response.
- 17. The safety warning process for alerting pedestrians, vehicle drivers, and vehicle passengers, according to claim 10, wherein said sound signal response is selected from a predefined set of sound chip, responsive for prescribed voice and or horn auditory signals.



- 18. The safety warning process for alerting pedestrians, vehicle drivers, and vehicle passengers, according to claim 10, including means; said means repeating said voice auditory and or horn auditory response over a predetermined delay intervals.
- 19. An audio safety device, as claimed in 1, wherein said switch terminal is responsive for automatic means, for initiating electrical pulses thereof.
- 20. An audio safety device, as claimed in 19, wherein said automatic means comprises a transmission shifting into a reverse mode, a parking brake releasing, a stop sign arm extending, a mixer vehicle funneling concrete, vehicle tailgate, or vehicle bed raised.

